

TABLE 3
Groundwater Profiling Boreholes and Monitoring Wells Specifications
OU1 New Cassel/Hicksville Ground Water Contamination Site
Nassau County, NY
February 2016

					Comments
Transect No.	Location	No. of Wells at Location	Nearby Existing Wells	Rationale	Overall the wells are needed to obtain data on the width and thickness of the treatment area (100 ppb) in order to size the capture zone and optimize the placement of treatment wells for mass removal
T1	MW-19	1	None	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-20.	Obtain data to identify the western edge of the western treatment area in order to design the northern portion of the western treatment system.
T1	PDI-20/MW-20	3	None	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design.	Description is good but I would add: ...optimize design for the northern portion of the western treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T1	MW-21	1	TMW-9	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-20.	Obtain data to identify the eastern edge of the western treatment area in order to design the northern portion of the western treatment system.
T2	PDI-22/MW-22	3	TMW-2	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design. Nearby TMW-2 had significant concentrations down to depth, PDI-22 will go deeper than TMW-2.	Description is good but I would add that the data is for the design of the western edge of the central portion of the western treatment area. Also, there were three wells listed in the previous table. 3 wells may be needed because the contamination extends over a relatively large depth range.
T2	PDI-23/MW-23	3	EX-2	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design	Description is good but I would add: ...optimize design for the central portion of the western treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T2	MW-24	1	TMW-3D	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-23.	Obtain data to identify the eastern edge of the western treatment area in order to design the central portion of the western treatment system.
T2	MW-25	1	MW-12, TMW-1	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-22.	Obtain data to identify the western edge of the western treatment area in order to design the central portion of the western treatment system.
T3	MW-26	1	MW-13	To obtain data necessary to determine required radius of influence for extraction wells, design pumping rates, and to confirm capture of the 100-ppb ROD benchmark boundary required to optimize the design.	This description is different from the others - I would revised to remove ROI and pumping rate reference. Obtain data to identify the western edge of the western treatment area in order to design the southern portion of the western treatment system.
T3	PDI-27/MW-27	3	None	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design.	Description is good but I would add: ...optimize design for the southern portion of the western treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T3	PDI-28/MW-28	2	MW-7, MW-8	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design. Based on the upgradient TMW-3 results, a deeper sample location is needed.	Description is good but I would add: Obtain data to identify the eastern edge of the western treatment area in order to design the central portion of the western treatment system.
T4	MW-29	1	None	To obtain data necessary to demarcate the 100-ppb ROD benchmark boundary required to optimize the design.	Obtain data to identify the western edge of the central treatment area in order to design the northern portion of the central treatment system.
T4	PDI-30/MW-30	3	MW-5, MW-6	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design.	Description is good but I would add: ...optimize design for the northern portion of the central treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T4	MW-31	1	MW-5, MW-6	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-30.	Obtain data to identify the eastern edge of the central treatment area in order to design the northern portion of the central treatment system.
T5	PDI-32/MW-32	3	MW-1 to MW-4, MW-10	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design.	Description is good but I would add: ...optimize design for the central portion of the central treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T5	MW-33	2	TMW-5	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-32.	Obtain data to identify the eastern edge of the central treatment area in order to design the central portion of the central treatment system.
T6	MW-34	1	None	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-35.	Obtain data to identify the western edge of the central treatment area in order to design the southern portion of the central treatment system.
T6	PDI-35/MW-35	3	None	To obtain data necessary to design treatment well screens including depth intervals, overall length, and to demarcate the 100-ppb ROD benchmark boundary(s) required to optimize the design.	Description is good but I would add: ...optimize design for the southern portion of the central treatment system. Intermediate well - Obtain data to optimize treatment well placement both horizontally and vertically. Shallow well - Obtain data to confirm the top of the treatment zone. Deep well - Obtain data to confirm the bottom of the treatment zone.
T6	MW-36	1	None	Installation of this monitoring well may be necessary to obtain design parameters pending the reuslts of PDI-35.	Obtain data to identify the eastern edge of the central treatment area in order to design the southern portion of the central treatment system.
T7	MW-37	1	None	To obtain data necessary to determine required radius of influence for extraction wells, design pumping rates, and to confirm capture of the 100-ppb ROD benchmark boundary required to optimize the design.	Revise description to match other wells (i.e. remove ROI reference). Obtain data to identify the western edge of the eastern treatment area in order to design the northern portion of the eastern treatment system.

tom would get rid of 37 before we rid of 43.

